Monitoring Data Record

Project Title:	U-4026B (Davis Drive)	COE Ac	tion ID: 200120448				
Stream Name: Tributa	ary to Burdens Creek (Site 9)	DWO Numb	per: 051972				
	r Location Information: Di						
	mpleted: 12/5/07						
Ecoregion:	8 digit	HUC unit 03030	002				
USGS Quad Name and	d Coordinates:						
Rosgen Classi	fication:						
Length of Project:	fication: Urban or Run	al: Urban Wate	ershed Size:				
Monitoring DATA col	llected by: M. Green and	I Young	Date: 7/7/11				
Applicant Information		<u> </u>	_ Date:				
	NCDOT Roadside Environme	ental Unit					
	1425 Rock Quarry Rd, Raleig						
	mber: (919) 861-3772 Em						
Consultant Information		ian address. <u>imgreen</u>	Te ficuot.gov				
Address:							
Telephone Nur	mher:	Email address:					
Project Status	Address: Email address:						
1 Toject Status	·						
Monitoring Level red	quired by COE and DWQ (40	04 permit/ 401 Cert.):	Level 1				
	permittee shall perform the fo	<u>-</u>	-				
	r monitoring period: Referen						
	missing, stressed, damaged						
	remedial action); visual						
	channel stability/morphology v						
	orts to the USACE, Raleigh I						
	ompleting the monitoring. If						
	permittee shall continue m						
	bankfull events must occur	- 1					
that the required	bankfull events do not occu	r during the five-ye	ar monitoring period, the				
USACE, in consu	ltation with the resource ager	icies, may determine	that further monitoring is				
not required. It is	suggested that all bankfull occ	currences be monitore	d and reported through the				
_	g period. The permittee shall						
-	er and winter) for the 5-year	-					
required monitorin	•	memvermg periou,	and for any succequency				
Section 1. PHOTO REFE	RENCE SITES						
	must complete this section)						
	rence photo locations at this	site: 6 photos were	taken from 3 photo				
	ng up and down stream						
_	os have been taken at this sit	e: <u>2/19/08, 6/11</u>	<u>/08, 1/28/09, 7/6/09, </u>				
1/15/10, 7/28/10, 1/13	/11, 7/7/11						
T 10 1 1 1 0 -		1.4 • 7.4					
Individual from who	m additional photos can be o	btained (name, add)	ress, phone):				

Other Information relative to site photo reference: A site map is included with this report showing the photo point locations.

If required to complete Level 3 monitoring only stop here; otherwise, complete section 2.
Section 2. PLANT SURVIVAL Attach plan sheet indicating reference photos.
Identify specific problem areas (missing, stressed, damaged or dead plantings):
Estimated causes, and proposed/required remedial action:
ADDITIONAL COMMENTS: Planted vegetation noted along the streambank consisted of black willow and silky dogwood live stakes. Tulip poplar, sycamore, willow oak, green ash, red oak, and river birch bareroot seedlings were noted in the floodplain. Other vegetation noted consisted of lespedeza, briars, wax myrtle, black eyed susan, fennel, <i>Juncus</i> sp., pine, mimosa, sweetgum, baccharis, and various grasses.

If required to complete Level 1 and Level 2 monitoring <u>only</u> stop here; otherwise, complete section 3.

Section 3. CHANNEL STABILITY

Visual Inspection: The entire stream project as well as each in-stream structure and bank stabilization/revetment structure must be evaluated and problems addressed.

Report on the visual inspection of channel stability. <u>Physical measurements of channel stability/morphology will not be required.</u> Include a discussion of any deviations from as-built and an evaluation of the significance of these deviations and whether they are indicative of a stabilizing or destabilizing situation.

The Tributary to Burdens Creek is stable for Year 4 Summer evaluation. A bankfull event has occurred since last monitoring evaluation. A rock sill at Sta. 285+60-L- (just downstream of photo point #3) had water piping through this structure at the time of the evaluation. NCDOT will continue to monitor this stream relocation.

Date	Station	Station	Station	Station	Station
Inspected	285+60-L-	Number	Number	Number	Number
7/7/11	(additional photo)				
a.					
Structure					
Type					
Is water	Water piping				
piping	through rock				
through or	sill				
around					
structure?					
Head cut or					
down cut					
present?					
Bank or					
scour erosion					
present?					
Other					
problems					
noted?					

Section 4. <u>DEBIT LEDGER</u>

The entire Tributary to Burdens Creek stream mitigation site was used for the U-4026B project to compensate for unavoidable stream impacts.

Tributary to Burdens Creek



Photo Point #1 (Upstream)



Photo Point #2 (Upstream)



Photo Point #3 (Upstream)



Photo Point #1 (Downstream)



Photo Point #2 (Downstream)



Photo Point #3 (Downstream)

Year 4 Summer – July 2011

Tributary to Burdens Creek



Rock Sill @ Sta. 285+60-L- (downstream of PP#3)



Overview photo of site

Year 4 Summer – July 2011

